

CS FLEX S1

Tile and Stone Fixing Adhesive



PRODUCT DESCRIPTION

Highly flexible, multipurpose structural adhesive with high strength and polymer modification for tiles and stones of all types with no sag and long open time.

ADVANTAGES

- Internal and external applications
- No sag/thixotropic
- Long open time
- Sustains heat ageing
- Adhesive thickness 2 to 15 mm
- No shrinkage
- Absorbs dynamic loads
- Suitable for Green Building
- Water resistant
- Improved performance
- Highly flexible/high deformation

APPLICATION

Application Substrates	Application Materials	Uses
Cement-based creeds and mortars	Ceramic/Porcelain/vitrified tiles of small or large formats	Floors and walls
Cement/ gypsum-based plasters/ renders	Terracotta	Internal and external
Concrete surfaces	Marble and natural stone	Facades
Insulating panels	Mosaics	Terraces and balconies
Overlaying existing floors	Thermal and sound insulation panels	Pools and fountains
Heating Systems	Terracotta	Domestic/Commercial/Industrial
Brick		
Fibro-cement slabs		
Waterproofing products		

- **The product is low VOC and in line with green building standards.**

PACKAGING

20 kg bag

STORAGE AND SHELF-LIFE

CS Flex S1 has a shelf life of approximately 1 year from date of manufacture. Product should be stored in a cool and dry environment

PRODUCT SPECIFICATIONS

PROPERTIES	
COLOR	White/Grey
WET DENSITY	1.7 – 1.8 g/cm ³
PACKAGING PHYSICAL STATE	Dry Powder
COVERAGE	8.75 kg/m ² @ 5 mm thickness
ADHESIVE THICKNESS	2 to 15 mm
WORKING TEMPERATURE RANGE	+5°C to +35°C
POT LIFE	
GREY	+23°C ≈ 4 hrs
	+35°C ≈ 3 hrs
WHITE	+23°C ≈ 4 hrs
	+35°C ≈ 3 hrs
OPEN TIME	+23°C ≥ 50 min
	+35°C ≥ 30 min
ADJUSTABILITY TIME	+23°C ≥ 45 min
GROUTING OF JOINTS	+23°C ≈ 20 hours
	+35°C ≈ 12 hours
LIGHT FOOT TRAFFIC	2 – 3 days
HEAVY FOOT TRAFFIC	3 – 4 days
TENSILE ADHESION	>1.0 N/mm ² (IS : 15477 – 2019)
SHEAR ADHESION	>1.25 N/mm ² (IS : 15477 – 2019)
DEFORMABILITY	> 2.5 mm (IS : 15477 – 2019)

PREPARATION AND USE

- **Surface Preparation:** All surfaces should be dimensionally stable according to IS 1443-1972. Surfaces should be fully cured and cleaned for oil and adhesion inhibiting materials like dirt and laitance. It is good practice to apply coat of primer prior to application.
- **Adhesive Preparation:** Follow instructions on bag. Recommended amount is 7.5 L per bag for white and 6.5 L per bag for grey. Amount of water added can be varied to change consistency of adhesive as per requirement.
- **Application:** It is necessary to apply sufficient layer of adhesive to ensure maximum adhesion.



- Create elastic expansion joints:
About 10 m² in external applications
About 25 m² in internal applications
Every 8 meters in long, narrow applications
- Perform test sample whenever possible to ensure proper results. Protect from rainfall for at least 24 hours.

SPECIAL NOTES

- Use suitable primers with gypsum and anhydrite substrates
- Consult technical support staff before use with marble and limestone and other natural stones subject to staining and/or water absorption. Since these are natural stones, the general physical and chemical characteristics can vary. It is highly recommended that you contact our technical staff and conduct a sample test before full scale application
- Stone slabs with any form of reinforcement like resin coating, polymer mesh, matting, etc., must be tested in advance for compatibility with this adhesive.
- Mix CS Latex Eco with water during mixing for covering applications of more than 60 cm sides.
- Do not use with metal & plastic.
- Surfaces subject to violent vibrations
- Uncured substrates

NOTES

- Abide by all national safety and application regulations
- Do not use adhesive to correct surface irregularities greater than 10 mm
- Temperature, humidity, ventilation and quality of surface will affect adhesive workability and curing times